Freeform Search

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Datab	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins		
Term	13 and RNAseH		
Displa	ay: 10 Documents in Display Format: - Starting w	ith Number	1
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Set Name side by side	Query	Hit Count	Set Name result set
DB = U	SPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
<u>L7</u>	13 and RNAseH	4	L7
L6	14 and reverse transcriptase\$1	C	L6
L5	13 and (reverse transcriptase\$1 near5 (lack\$1 or devoid\$3) near5	() L5

END OF SEARCH HISTORY

RNaseH)

sequence\$1)

L4

L3

L2

L1

L3 and (reverse transcriptase near5 lack\$1 near5 RNaseH)

L1 and (reverse transcriptase\$1 near5 lack\$1 near5 RNAseH)

(primer\$1 or oligonucleotide\$1)same (brideg\$3 or spac\$3)

(primer\$1 or oligonucleotide\$1) same (brideg\$3 sequence\$1 or spac\$3

0

0

239

5030

1

L5

L4

L3

L2

L1

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> s (primer# or oligonucleotide#) (P) (brideg### sequence# or spac### sequence#)
           291 (PRIMER# OR OLIGONUCLEOTIDE#) (P) (BRIDEG### SEQUENCE# OR SPAC##
L1
               # SEQUENCE#)
=> s l1 and reverse transcriptase#(10a)lack#(10a)RNAseH
             O L1 AND REVERSE TRANSCRIPTASE#(10A) LACK#(10A) RNASEH
    s l1 and (reverse transcriptase#(10a)lack#(10a)RNAseH)
             0 L1 AND (REVERSE TRANSCRIPTASE#(10A) LACK#(10A) RNASEH)
=> s ll and reverse transcriptase#
             8 L1 AND REVERSE TRANSCRIPTASE#
=> s 14 and RNAseH
             1 L4 AND RNASEH
=> d 15 bib ab kwic
     ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2002:946303 CAPLUS
DN
     138:1057
     Nucleic acid amplification utilizing intermediate duplexes
TI
IN
     Haydock, Paul V.; U'Ren, Jack
     Saigene Corporation, USA
PΑ
SO
     PCT Int. Appl., 69 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
     PATENT NO.
                                          APPLICATION NO.
                       KIND
                               DATE
                        _ _ _ _
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                                           ______
     WO 2002098895
                        A1 20021212 WO 2002-US18229 20020607
PΙ
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2003050444
                                20030313 US 2002-77383
                         Α1
                                                                   20020215
     EP 1404697
                                           EP 2002-737437
                         Α1
                                20040407
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRAI US 2001-296812P P
                                20010607
     US 2002-77383
                         Α
                                20020215
     WO 2002-US18229
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                               20020607
OS
    MARPAT 138:1057
AΒ
    This invention provides for a novel amplification procedure for nucleic
     acid. The method uses a wild type or mutant RNA polymerase designed to
     transcribe both deoxyribonucleotides and ribonucleotides. The invention
    provides for oligonucleotide primers that comprise in
     the following order from 5' to 3': a phage-encoded RNA polymerase
     recognition sequence, a spacer sequence comprising a
     sequence of from 12 to 20 nucleotides that consists of one nucleotide or
     two different nucleotide types, and a target complimentary sequence which
     can bind a segment of a target nucleic acid. The target nucleic acid can
    be ssDNA or comprised of RNA. The invention further provides a kit for
    amplifying a target nucleic acid, containing a wild type or a mutant phage RNA
    polymerase competent to incorporate dNTP and rNTP simultaneously into a
     template nucleic acid.
RE.CNT 1
             THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
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ALL CITATIONS AVAILABLE IN THE RE FORMAT AΒ This invention provides for a novel amplification procedure for nucleic acid. The method uses a wild type or mutant RNA polymerase designed to transcribe both deoxyribonucleotides and ribonucleotides. The invention provides for oligonucleotide primers that comprise in the following order from 5' to 3': a phage-encoded RNA polymerase recognition sequence, a spacer sequence comprising a sequence of from 12 to 20 nucleotides that consists of one nucleotide or two different nucleotide types, and a target complimentary sequence which can bind a segment of a target nucleic acid. The target nucleic acid can be ssDNA or comprised of RNA. The invention further provides a kit for amplifying a target nucleic acid, containing a wild type or a mutant phage RNA polymerase competent to incorporate dNTP and rNTP simultaneously into a template nucleic acid. STnucleic acid amplification phage RNA polymerase kit oligonucleotide primer; intermediate duplex amplification spacer sequence dNTP rNTP TΤ 9068-38-6, Reverse transcriptase RL: BSU (Biological study, unclassified); BIOL (Biological study) (RNaseH-; nucleic acid amplification utilizing intermediate duplexes) => dup rem 14 PROCESSING COMPLETED FOR L4 3 DUP REM L4 (5 DUPLICATES REMOVED) => d 16 1-3 bib ab kwic ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN L6 AN 2002:946303 CAPLUS DN 138:1057 Nucleic acid amplification utilizing intermediate duplexes TIHaydock, Paul V.; U'Ren, Jack INPΑ Saigene Corporation, USA PCT Int. Appl., 69 pp. SO CODEN: PIXXD2 DT Patent LAEnglish FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ----------WO 2002098895 WO 2002-US18229 A1 20021212 20020607 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003050444 20030313 Α1 US 2002-77383 20020215 EP 1404697 20040407 Α1 EP 2002-737437 20020607 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR PRAI US 2001-296812P Р 20010607 US 2002-77383 Α 20020215 WO 2002-US18229 W 20020607 OS MARPAT 138:1057 This invention provides for a novel amplification procedure for nucleic AB acid. The method uses a wild type or mutant RNA polymerase designed to

transcribe both deoxyribonucleotides and ribonucleotides. The invention

provides for oligonucleotide primers that comprise in the following order from 5' to 3': a phage-encoded RNA polymerase recognition sequence, a spacer sequence comprising a sequence of from 12 to 20 nucleotides that consists of one nucleotide or two different nucleotide types, and a target complimentary sequence which can bind a segment of a target nucleic acid. The target nucleic acid can be ssDNA or comprised of RNA. The invention further provides a kit for amplifying a target nucleic acid, containing a wild type or a mutant phage RNA polymerase competent to incorporate dNTP and rNTP simultaneously into a template nucleic acid.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB This invention provides for a novel amplification procedure for nucleic acid. The method uses a wild type or mutant RNA polymerase designed to transcribe both deoxyribonucleotides and ribonucleotides. The invention provides for oligonucleotide primers that comprise in the following order from 5' to 3': a phage-encoded RNA polymerase recognition sequence, a spacer sequence comprising a sequence of from 12 to 20 nucleotides that consists of one nucleotide or two different nucleotide types, and a target complimentary sequence which can bind a segment of a target nucleic acid. The target nucleic acid can be ssDNA or comprised of RNA. The invention further provides a kit for amplifying a target nucleic acid, containing a wild type or a mutant phage RNA polymerase competent to incorporate dNTP and rNTP simultaneously into a template nucleic acid.

ST nucleic acid amplification phage RNA polymerase kit
 oligonucleotide primer; intermediate duplex
 amplification spacer sequence dNTP rNTP

IT 9068-38-6, Reverse transcriptase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (RNaseH-; nucleic acid amplification utilizing intermediate duplexes)

L6 ANSWER 2 OF 3 MEDLINE on STN DUPLICATE 1

AN 94118405 MEDLINE

DN PubMed ID: 7507181

TI A specific orientation of RNA secondary structures is required for initiation of reverse transcription.

AU Aiyar A; Ge Z; Leis J

CS Department of Biochemistry, Case Western Reserve University School of Medicine, Cleveland, Ohio 44106.

NC CA38046 (NCI)

P30 CA 43703 (NCI)

SO Journal of virology, (1994 Feb) 68 (2) 611-8. Journal code: 0113724. ISSN: 0022-538X.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals; AIDS

EM 199402

- ED Entered STN: 19940312 Last Updated on STN: 19970203 Entered Medline: 19940218
- The 5' end of avian retrovirus RNA near the **primer**-binding site (PBS) forms two secondary structures, the U5-inverted repeat (U5-IR) and the U5-leader stems, and contains a 7-nucleotide sequence that anneals to the T psi C loop of the tRNA(Trp) **primer**. Mutations that disrupt any of these base pair interactions cause defects in initiation of reverse transcription both in vivo and in vitro (D. Cobrinik, A. Aiyar, Z. Ge, M. Katzman, H. Huang, and J. Leis, J. Virol. 65:3864-3872, 1991; A. Aiyar, D. Cobrinik, Z. Ge, H.-J. Kung, and J. Leis, J. Virol. 66:2464-2472, 1992). We have now examined the effect of perturbing the non-base-paired intervening "**spacer**" **sequences** between these secondary-structure elements. Small deletions or insertions in these intervening sequences decreased initiation of reverse

transcription in vitro. In contrast, base substitutions, which maintain the spacing distances between the structures, had no detectable effect. Additionally, a small deletion at the 3' end of the PBS caused a significant decrease in initiation of reverse transcription whereas substitution mutations again had no effect. Together, these results indicate that reverse transcriptase forms a complex in which the different structural elements are maintained in a specific orientation that is required for efficient initiation of reverse transcription. Specific sequence recognition of the duplex structures by reverse transcriptase is also required since mosaic RNAs that combine the human immunodeficiency virus type 1 PBS with avian sequences is not efficiently utilized for reverse transcription even though the primer used can anneal to the substituted PBS. AB The 5' end of avian retrovirus RNA near the primer-binding site (PBS) forms two secondary structures, the U5-inverted repeat (U5-IR) and the U5-leader stems, and contains a 7-nucleotide sequence that anneals to the T psi C loop of the tRNA(Trp) primer. Mutations that disrupt any of these base pair interactions cause defects in initiation of reverse transcription both in vivo and. . . H.-J. Kung, and J. Leis, J. Virol. 66:2464-2472, 1992). We have now examined the effect of perturbing the non-base-paired intervening "spacer" sequences between these secondary-structure elements. Small deletions or insertions in these intervening sequences decreased initiation of reverse transcription in vitro. In. . . a significant decrease in initiation of reverse transcription whereas substitution mutations again had no effect. Together, these results indicate that reverse transcriptase forms a complex in which the different structural elements are maintained in a specific orientation that is required for efficient initiation of reverse transcription. Specific sequence recognition of the duplex structures by reverse transcriptase is also required since mosaic RNAs that combine the human immunodeficiency virus type 1 PBS with avian sequences is not efficiently utilized for reverse transcription even though the primer used can anneal to the substituted PBS.

- ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2 L6
- 1991:36720 CAPLUS AN
- DN 114:36720
- ΤI Sequence, organization and transcription of the ribosomal RNA operon and the downstream tRNA and protein genes in the archaebacterium Thermofilum pendens
- Kjems, Joergen; Leffers, Henrik; Olesen, Tina; Holz, Ingelore; Garrett, ΑU Roger A.
- CS Kem. Inst., Aarhus Univ., Aarhus, 8000, Den.
- SO Systematic and Applied Microbiology (1990), 13(2), 117-27 CODEN: SAMIDF; ISSN: 0723-2020
- DTJournal
- $_{\rm LA}$ English

AΒ

The single rRNA (rRNA) operon from the extremely thermophilic archaebacterium T. pendens was sequenced together with the immediate downstream tRNA genes and open reading frames on both DNA strands. The genes for 16S and 23S RNA were separated by a short spacer sequence and were not followed by a 5S RNA gene. Sites of initiation and termination of the rRNA transcript, and its processing sites, were localized by S1 or mung bean nuclease mapping and by primer-directed reverse transcriptase anal. Initiation occurred primarily 187 nucleotides upstream from the 16S RNA gene, after an archaebacterial promoter and this was confirmed by a guanyltransferase capping experiment The transcript terminated inefficiently before a polypyrimidine sequence 45 nucleotides downstream from the 23S RNA gene. The 16S RNA leader sequence, the spacer region and the sequence downstream from the 23S RNA can generate extensive secondary structure, including the processing stems for the 2 rRNAs. Moreover, much of this structure is supported phylogenetically by coordinated base changes. It

is proposed that some of these double helical structures are involved in transcriptional regulation. The 16S and 23S RNA sequences were aligned with those of other organisms. Secondary structures were generated from the alignments which are characteristic of the extreme thermophiles. Moreover, phylogenetic trees were derived which placed T. pendens close to Thermoproteus tenax. The downstream tRNA genes and open reading frames each exhibited an archaebacterial promoter-like motif and a putative primary initiation site. Incomplete termination also occurred at polypyrimidine sequences. A 919-bp sequence between the 2 tRNA genes, which are located on opposing DNA strands, was rich in polypyrimidine sequences on both strands. Transcript mapping suggested that this constitutes a major termination region.

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AB